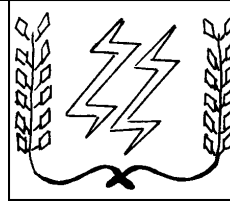


ELECTRICIAN
INTEREST BADGE


Date Passed

Signed

1. Lists the common causes of electrical accidents and the safety precautions necessary to guard against the possibility of their occurring in the home. _____ 1
2. Demonstrate that you know the international colour code for three-core flex by connecting a flex to a three-point plug. _____ 2
3. Correctly join and tape two pieces of insulated wire. _____ 3

DO ONE OF THE FOLLOWING ALTERNATIVES (4 OR 5)

4. Domestic electrician
 - a) Conduct an experiment showing the law of electrical attraction and repulsion. Make and operate a simple electro-magnet.
 - b) Correctly replace defective lamp holders, fuses, plugs and electrical wire; demonstrate the uses of flexes and simple tools such as cutters, pliers and screw drivers. Explain why a fuse blows or a trip switch is activated.
 - c) Take a standard length of PVC conduit and put 2 x 90 degree bends 400 mm from each end. Fit 2 standard boxes onto each end and wire up for a simple light fitting with a 1 lever switch. _____ 4

OR

5. Auto electrician
 - a) Be able to read a schematic wiring diagram of a car and demonstrate how to track an indicator wire back to the fuse box.
 - b) Demonstrate how to charge a car battery correctly taking the necessary precautions. Demonstrate how you would know when the battery is fully charged.
 - c) Demonstrate how to find a simple electrical fault in the ignition system of a car. _____ 5